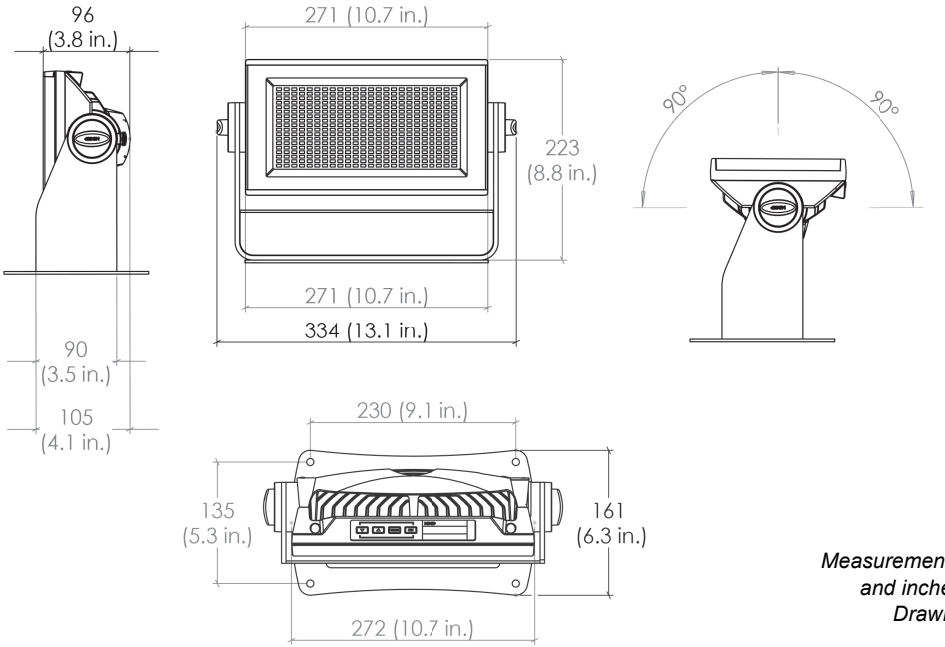
SGM®

Q-2
Q-2 WHITE

Q-2 / Q-2 W Dimensions



Measurements in millimetres and inches (in brackets). Drawing not to scale.

Q-2 / Q-2 W
USER MANUAL

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The original edition of this document is in English. All other language editions are translations of the original edition.

This edition applies to firmware version 1.10 or later.

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Safety information

WARNING! *Read the safety precautions in this section before, unpacking, installing, powering or operating this device.*

The Q-2 / Q-2 W is a multi-environmental device with an IP-rating of 65, intended for professional use only. It is not suitable for household use. ***Impropre a l'usage domestique.***

Review the following safety precautions carefully before installing or operating the device.
This device must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the device and the hazards involved.

Preventing electric shock

WARNING! *Risk of electric shock.*

- Always power off/unplug the device before removing any covers.
- Ensure that the power is turned off when connecting the device to the AC mains supply.
- Ensure that the device is electrically connected to earth (ground).
- Do not apply power if the device is in any way damaged.
- Do not immerse the device in water or liquid.

Preventing burns and fire

WARNING! *Take measures to prevent burns and fire.*

- Install in a location that prevents accidental contact with the device.
- Install only in a well-ventilated space.
- Install at least 0.3 m (12 in.) away from objects to be illuminated.
- Install only in accordance with applicable building codes.
- Ensure a minimum clearance of 0.1 m (4 in.) around the cooling fans.
- Do not paint, cover or modify the device.
- Keep all flammable materials away from the device.
- Allow the device to cool for 15 minutes after operation, before touching it.

CAUTION: *Exterior surface temperature after 5 min. operation = 45°C (113°F). Steady state = 60°C (140°F).*

Avoid personal injury

WARNING! *Take measures to prevent personal injury.*

- Do not look directly at the light source from close range.
- Take precautions to prevent injury due to falls when working at height.
- For permanent installation, ensure that the device is securely fastened to a load-bearing surface with suitable corrosion-resistant hardware.
- For temporary installation with clamps, ensure that the quarter-turn fasteners are turned fully and secured with a suitable safety cable. The cable must be approved for a safe working load (SWL) of 10 times the weight of the device, and it must have a minimum gauge of 2 mm.

Introduction

The Q-2 is a low-profile, compact IP65-rated, full-color LED flood light, incorporating 432 RGB + 432 White LEDs divided into 3 individually controllable segments for wide ranging color and effect combinations.

The Q-2 W is a low-profile, compact IP65-rated cool white flood light, incorporating 432 cool white LEDs divided into 12 individually controllable segments for wide ranging effect combinations.

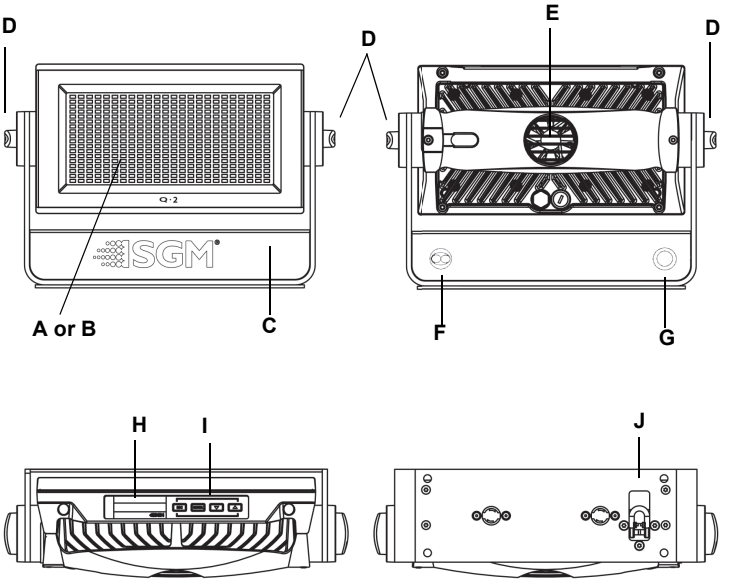
Both devices offer dimming, a (half-peak) spread angle of 110°, and a lamp life expectancy of 50,000 hours*. In addition, the Q-2 offers RGBW color mixing and color temperature control.

This manual covers installation, use and maintenance of the Q-2 / Q-2 W. All documentation is also available from the SGM web-site: **http://www.sgmlight.com**

* At 70% of luminous output under the manufacturer's test conditions.

Parts identification and terminology

- **A** Q-2: 432 RGB + 432 White LEDs
- **B** Q-2 W: 432 White LEDs
- **C** Base
- **D** Tilt brake lock
- **E** Cooling fan
- **F** DMX in/out
- **G** Power connection
- **H** OLED display
- **I** Control panel
- **J** Safety wire eyelet



Preparing for installation

Unpack the device and inspect it to ensure that it has not been damaged during transport.

The Q-2 series is shipped with an Omega bracket, that can be used to mount the device at elevation. The device is IP65-rated, and is designed for use in wet locations. This means that it is
protected from:

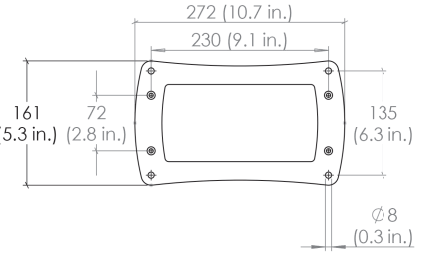
- Dust, to the degree that dust cannot enter the device in sufficient quantities as to interfere with its operation.
- Lower pressure jets of water from any direction.

When selecting a location for the device, ensure that:

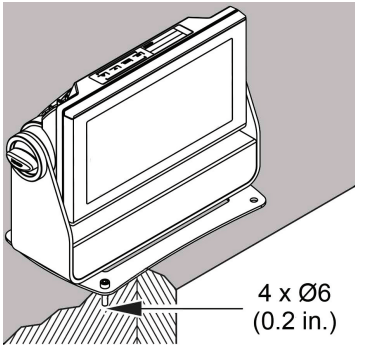
- It is situated away from public thoroughfares and protected from contact with people.
- It is not immersed in water or exposed to high-pressure water jets.
- It has adequate ventilation.

Installing the Q-2 / Q-2 W

The Q-2 / Q-2 W may be installed in any orientation, but if installed horizontally with a downward beam-angle, water can potentially pool in the fan wells. Under normal operation the moisture will evaporate. However, in locations with high rainfall, you may wish to fabricate a rain shield above the device, or modify the position and orientation of the device to minimize pooling.

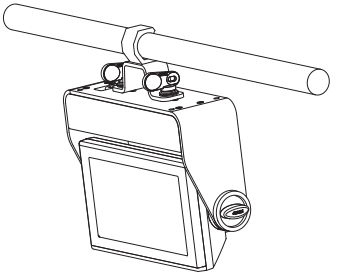


For permanent installation on the ground, remove the rubber feet from the floor stand/base. Fasten securely through the resulting holes with four 6 mm (1/4 in.) corrosion-resistant mechanical fasteners suitable for the location.



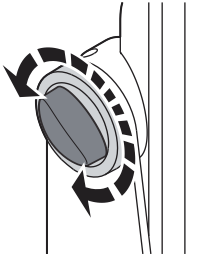
One Omega bracket is supplied with the device if it is to be flown above the ground. Remove the floor stand/base and rig the Q-2 / Q-2 W to a support truss or structure using the supplied brackets and suitable clamps.

Fasten a safety cable (not shown) between the support structure and the attachment point on the device. The safety cable must be approved for a safe working load (SWL) of 10 times the weight of the device.



WARNING! *Always secure an elevated device with a safety cable as backup.*

The device can be tilted from 0° - 180°. To adjust the tilt angle, loosen the two tilt brake locks, one on each side of the device, and tilt the device to the angle required and re-tighten the locks.



If installed horizontally with a downward beam-angle, water can potentially pool in the fan wells. Under normal operation the moisture will evaporate.

CAUTION: *If the device has been operating, always allow it cool for 15 minutes before handling.*

Connecting AC power

The Q-2 / Q-2 W can operate on any 100–277V, 50/60 Hz AC mains power supply. It draws approximately 1.2 amps at full power (230V).

For permanent installation, have a qualified electrician wire the mains cable directly to a suitable branch circuit. The junction's ingress protection (IP) rating must be suitable for the location.

For temporary installation, the mains cable may be fitted with a grounded connector intended for exterior use.

The power cable color coding is given in Table 1-1.

- Connect the black wire to live
- Connect the white wire to neutral
- Connect the green/yellow wire to ground (earth)

Wire	*Color*	*Symbol*	*Conductor*
	Black	**L**	live
	White	**N**	neutral
	green/yellow	⏚ or ⏚	ground (earth)

Table 1-1.

The device must be grounded/earthed and be able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection.

After connecting the Q-2 / Q-2 W to power, run the on-board test, using the "Test→Selftest" menu, to ensure that the device and each LED are functioning correctly. See "Control menu" on page 46.

CAUTION: *Do not open the device to replace the supplied power cable, or connect the device to an electrical dimmer system, as this can damage it.*

Configuring the device

Set up the device using the control panel and OLED display at the top of the device.

Navigate the menus and options using the arrow buttons and select items using the Enter button. The options available are listed in “Control menu” on page 46.

After powering the Q-2 / Q-2 W on, the display shows the currently selected operating mode and other information.

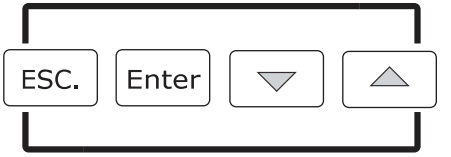
A - Operational mode

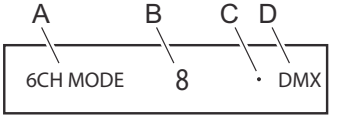
B - DMX address

C - External data indicator (if DMX control is active)

D - External data protocol (DMX)

The device is set by default to be controlled in DMX mode.





Connecting to a DMX control device

The device is controllable using a DMX control device and it can be connected using a DMX cable.If using a cabled DMX system, connect the DMX in cable (with male 5-pin XLR plug) and out cable (with female 5-pin XLR plug) to the DMX data link. Terminate the DMX out cable of the last device in the data link. For outdoor installations, use only IP-rated XLR connectors suitable for outdoor use.

Configuring the device for DMX control

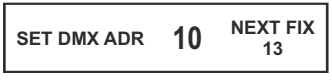
About DMX

The Q-2 / Q-2 W can be controlled using signals sent by a DMX controller on a number of channels (which varies depending on the DMX mode that has been set).

The first channel used to receive data from a DMX control device is known as the DMX start address. Each Q-2 / Q-2 W must have a DMX start address set. For example, if a Q-2 / Q-2 W has a DMX address of 10 and it is in 3-channel DMX mode, then it uses channels 10, 11, and 12. The following device in the DMX chain could then be set to a DMX address of 13. If two or more DMX devices of the same type have the same DMX address, then they will mimic each other's behavior. Incorrect settings will result in unpredictable responses to the lighting controller.

Setting the DMX address

The DMX address can be seen on the OLED display. To change the address setting, press the up and down arrows. When the desired address is displayed, press 'Enter' to save the setting. For your convenience, the suggested DMX address of the next device is displayed to the right. Note that channel spacing is determined by the DMX mode.



See the "DMX protocols" on page 24 for specific DMX control values.

Setting the DMX mode

Using the “DMX mode” menu available from the control panel, specify the DMX mode that provides the device controls that you require:

Q-2 DMX modes	Function
3	Individual control of color channels for red, green & blue. White is automatically mixed in.
6	RGBW, dimmer, shutter, strobe, pulse & open shutter effects.
9	RGB with individual colour panel control.
12	RGB with individual colour panel control, dimmer, shutter, strobe, pulse & open shutter effects.
15	RGBW, dimmer, shutter, strobe, pulse & open shutter effects.
22	RGB with fine individual colour panel control, dimmer, shutter, strobe, pulse & open shutter effects.

Q-2 W DMX modes	Function
1	Full white color control
3	Segmented white color panel control
6	Segmented white color panel control (coarse or fine)
12	Individual white color panel control
14	Individual white color panel control, dimmer, shutter
24	Individual white color panel control (coarse or fine)

Full Color Calibration and Color Temperature Correction (Q-2 only)

All channel modes except 1 x RGB (3 Channel Mode) and 3 x RGB (9 Channel Mode): Lets you choose between raw or white-calibrated color (2000K - 10.000K) via the CTC channel. When you adjust the white color temperature, all RGB or RGBW channels (if available) must be set to 100%.

1 x RGB (3 Channel Mode) and 3 x RGB (9 Channel Mode): Features full color calibration when you mix 2 or 3 colors to ensure uniform color between products. Adjusting 1 color does not activate full color calibration.

All channel modes except 1 x RGB (3 Channel Mode) and 3 x RGB (9 Channel Mode)	1 x RGB (3 Channel Mode)	3 x RGB (9 Channel Mode)
Choose raw or white-calibrated color (2000K - 10.000K) via the CTC channel. **NOTE:** When you adjust the white color temperature, all RGB or RGBW channels (if available) channels must be set to 100%.	Full Color Calibration	Full Color Calibration

See “DMX protocols” on page 24 for more details.

Device personality settings

Setting the dimming curve

The setting of the dimming curve will determine the device's behavior, when changing the light intensity between 0% - 100%. Linear control provides uniform adjustment throughout the control action, whereas gamma corrected dimming provides finer control at low light levels, where the eye is more sensitive to change. By default, the Q-2 / Q-2 W uses gamma corrected dimming. For uniform response, set all devices to the same dimming curve. To set the desired dimming curve, use the "Settings→Dimming curve" menu.

Flipping the OLED display

If the device is installed hanging upside down, it might be useful to flip the display so that it is easier to read. To flip the display, use the "Settings→Flip display" menu, or press the up and down buttons on the control panel at the same time.

Setting the OLED display saver

By default the OLED display dims down after a short period when the control panel is not in use, but it can also be set to turn off completely. Pressing any key will always turn on the display or restore it to normal brightness. To change the display saver, use the "Settings→Display saver" menu.

NOTE: To avoid the risk of display deterioration caused by long term use in permanent installations, it is recommended to use the "Display saver→Display off" setting.

Setting the fan mode

For operating environments where low-noise is a requirement or where the device will be operating in high temperatures, it is possible to adjust the default fan speed to low or high using the “Settings→Fan mode” menu.

Service

There are no user-serviceable components in the device. Do not open the Q-2 / Q-2 W, as doing so is likely to damage the ingress protection. Consult your SGM dealer if the device operates abnormally, is defective or otherwise in need of service or repair.

Upgrading the firmware

The firmware installed on the device can be identified using the “Info→Firmware version” menu. We recommend that you keep your device’s firmware up-to-date. Visit **http://www.sgmlight.com** to download the latest firmware.
To perform firmware updates, you need a Windows-based personal computer and a SGM USB 5-Pin-XLR upload cable (available from your SGM distributor).

Cleaning

To maintain optimal performance, regular cleaning is essential. Cleaning schedules will vary depending on the operating environment, and the installation should therefore be checked at frequent intervals within the first few weeks of operation to see whether cleaning is necessary. This procedure will allow you to assess cleaning requirements in your particular situation. If in doubt, consult your SGM dealer for a suitable maintenance schedule.

Clean the Q-2 /Q-2 W using a soft cloth dampened with a solution of water and a mild detergent. Do not use products that contain solvents, abrasives or caustic agents for cleaning, as they can cause damage to both hardware, cables and connectors.

DMX protocols

Configuring DMX is described in “Setting the DMX mode” on page 18. This section contains “Q-2 DMX protocols” (below), and “Q-2 W DMX protocols” on page 37

Q-2 DMX protocols

15 Channel Mode (RAW) - Full RGBW control (3 segments)

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
1	Shutter	0	7	0,0%	2,7%	Closed		10 (3,9%)	Snap
		8	15	3,1%	5,9%	Open		0 (0%)	Fade
		16	151	6,3%	59,2%	Strobe	Fast > Slow	0 (0%)	Fade
		152	175	59,6%	68,6%	Pulse - Open	Slow > Fast	0 (0%)	Fade
		176	199	69,0%	78,0%	Pulse - Close	Slow > Fast	0 (0%)	Fade
		200	244	78,4%	95,7%	Strobe - Random	Slow > Fast	0 (0%)	Fade
		245	255	96,1%	100.0%	Open		0 (0%)	Fade
2	Intensity	0	255	0,0%	100,0%	No light > Maximum light		0 (0%)	Fade

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
3	CTC	0	255	0,0%	100,0%	2000K - 10000K	Only active when channel > 4	0 (0%)	Fade
4	RED Panel 1	0	255	0,0%	100,0%	No RED > Maximum RED	Panel 1	0 (0%)	Fade
5	GREEN Panel 1	0	255	0,0%	100,0%	No GREEN > Maximum GREEN	Panel 1	0 (0%)	Fade
6	BLUE Panel 1	0	255	0,0%	100,0%	No BLUE > Maximum BLUE	Panel 1	0 (0%)	Fade
7	WHITE Panel 1	0	255	0,0%	100,0%	No WHITE > Maximum WHITE	Panel 1	0 (0%)	Fade
8	RED Panel 2	0	255	0,0%	100,0%	No RED > Maximum RED	Panel 2	0 (0%)	Fade
9	GREEN Panel 2	0	255	0,0%	100,0%	No GREEN > Maximum GREEN	Panel 2	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
10	BLUE Panel 2	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 2	0 (0%)	Fade
11	WHITE Panel 2	0 255	0,0% 100,0%	No WHITE > Maximum WHITE	Panel 2	0 (0%)	Fade
12	RED Panel 3	0 255	0,0% 100,0%	No RED > Maximum RED	Panel 3	0 (0%)	Fade
13	GREEN Panel 3	0 255	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 3	0 (0%)	Fade
14	BLUE Panel 3	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 3	0 (0%)	Fade
15	WHITE Panel 3	0 255	0,0% 100,0%	No WHITE > Maximum WHITE	Panel 3	0 (0%)	Fade

12 Channel mode - RGB (raw or white calibrated - 3 segments)

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
1	Shutter	0	7	0,0%	2,7%	Closed		10 (3,9%)	Snap
		8	15	3,1%	5,9%	Open		0 (0%)	Fade
		16	151	6,3%	59,2%	Strobe	Fast > Slow	0 (0%)	Fade
		152	175	59,6%	68,6%	Pulse - Open	Slow > Fast	0 (0%)	Fade
		176	199	69,0%	78,0%	Pulse - Close	Slow > Fast	0 (0%)	Fade
		200	244	78,4%	95,7%	Strobe - Random	Slow > Fast	0 (0%)	Fade
		245	255	96,1%	100.0%	Open		0 (0%)	Fade
2	Intensity	0	255	0,0%	100,0%	No light > Maximum light		0 (0%)	Fade
3	CTC	0	255	0,0%	100,0%	2000K - 10000K	Only active when channel > 4	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
4	RED Panel 1	0 255	0,0% 100,0%	No RED > Maximum RED	Panel 1	0 (0%)	Fade
5	GREEN Panel 1	0 255	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 1	0 (0%)	Fade
6	BLUE Panel 1	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 1	0 (0%)	Fade
7	RED Panel 2	0 255	0,0% 100,0%	No RED > Maximum RED	Panel 2	0 (0%)	Fade
8	GREEN Panel 2	0 255	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 2	0 (0%)	Fade
9	BLUE Panel 2	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 2	0 (0%)	Fade
10	RED Panel 3	0 255	0,0% 100,0%	No RED > Maximum RED	Panel 3	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
11	GREEN Panel 3	0 255	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 3	0 (0%)	Fade
12	BLUE Panel 3	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 3	0 (0%)	Fade

22 Channel Mode - 16 bit (raw or white-calibrated - 3 segments)

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
1	Shutter	0	7	0,0%	2,7%	Closed		10 (3,9%)	Snap
		8	15	3,1%	5,9%	Open		0 (0%)	Fade
		16	151	6,3%	59,2%	Strobe	Fast > Slow	0 (0%)	Fade
		152	175	59,6%	68,6%	Pulse - Open	Slow > Fast	0 (0%)	Fade
		176	199	69,0%	78,0%	Pulse - Close	Slow > Fast	0 (0%)	Fade
		200	244	78,4%	95,7%	Strobe - Random	Slow > Fast	0 (0%)	Fade
		245	255	96,1%	100.0%	Open		0 (0%)	Fade
2 3	Intensity	0	65535	0,0%	100,0%	No light > Maximum light		0 (0%)	Fade
4	CTC	0	255	0,0%	100,0%	2000K - 10000K	Only active when channel > 4	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
5 6	RED Panel 1	0 65535	0,0% 100,0%	No RED > Maximum RED	Panel 1	0 (0%)	Fade
7 8	GREEN Panel 1	0 65535	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 1	0 (0%)	Fade
9 10	BLUE Panel 1	0 65535	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 1	0 (0%)	Fade
11 12	RED Panel 2	0 65535	0,0% 100,0%	No RED > Maximum RED	Panel 2	0 (0%)	Fade
13 14	GREEN Panel 2	0 65535	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 2	0 (0%)	Fade
15 16	BLUE Panel 2	0 65535	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 2	0 (0%)	Fade
17 18	RED Panel 3	0 65535	0,0% 100,0%	No RED > Maximum RED	Panel 3	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
19 20	GREEN Panel 3	0 65535	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 3	0 (0%)	Fade
21 22	BLUE Panel 3	0 65535	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 3	0 (0%)	Fade

6 Channel Mode (raw or white calibrated - 1 segment)

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
1	Shutter	0	7	0,0%	2,7%	Closed		10 (3,9%)	Snap
		8	15	3,1%	5,9%	Open		0 (0%)	Fade
		16	151	6,3%	59,2%	Strobe	Fast > Slow	0 (0%)	Fade
		152	175	59,6%	68,6%	Pulse - Open	Slow > Fast	0 (0%)	Fade
		176	199	69,0%	78,0%	Pulse - Close	Slow > Fast	0 (0%)	Fade
		200	244	78,4%	95,7%	Strobe - Random	Slow > Fast	0 (0%)	Fade
		245	255	96,1%	100.0%	Open		0 (0%)	Fade
2	Intensity	0	255	0,0%	100,0%	No light > Maximum light		0 (0%)	Fade
3	CTC	0	255	0,0%	100,0%	2000K - 10000K	Only active when channel > 4	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
4	RED All Panels	0 255	0,0% 100,0%	No RED > Maximum RED	All Panels	0 (0%)	Fade
5	GREEN All Panels	0 255	0,0% 100,0%	No GREEN > Maximum GREEN	All Panels	0 (0%)	Fade
6	BLUE All Panels	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	All Panels	0 (0%)	Fade

9 Channel Mode - 3 x RGB (Full Color Calibration - 3 segments)

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
1	RED Panel 1	0 255	0,0% 100,0%	No RED > Maximum RED	Panel 1	0 (0%)	Fade
2	GREEN Panel 1	0 255	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 1	0 (0%)	Fade
3	BLUE Panel 1	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 1	0 (0%)	Fade
4	RED Panel 2	0 255	0,0% 100,0%	No RED > Maximum RED	Panel 2	0 (0%)	Fade
5	GREEN Panel 2	0 255	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 2	0 (0%)	Fade
6	BLUE Panel 2	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 2	0 (0%)	Fade
7	RED Panel 3	0 255	0,0% 100,0%	No RED > Maximum RED	Panel 3	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
8	GREEN Panel 3	0 255	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 3	0 (0%)	Fade
9	BLUE Panel 3	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 3	0 (0%)	Fade

3 Channel Mode - 1 x RGB (Full Color Calibration - 1 segment)

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
1	RED All Panels	0 255	0,0% 100,0%	No RED > Maximum RED	Panel 1	0 (0%)	Fade
2	GREEN All Panels	0 255	0,0% 100,0%	No GREEN > Maximum GREEN	Panel 1	0 (0%)	Fade
3	BLUE All Panels	0 255	0,0% 100,0%	No BLUE > Maximum BLUE	Panel 1	0 (0%)	Fade

Q-2 W DMX protocols

Configuring DMX is described in “Setting the DMX mode” on page 18.

14 Channel Mode - 8 bit (12 segments)

Channel	Name	DMX value		DMX percentage		Description	Info	Default DMX value	Fader type
1	Shutter	0	7	0,0%	2,7%	Closed		10 (3,9%)	Snap
		8	15	3,1%	5,9%	Open		0 (0%)	Fade
		16	151	6,3%	59,2%	Strobe	Fast > Slow	0 (0%)	Fade
		152	175	59,6%	68,6%	Pulse - Open	Slow > Fast	0 (0%)	Fade
		176	199	69,0%	78,0%	Pulse - Close	Slow > Fast	0 (0%)	Fade
		200	244	78,4%	95,7%	Strobe - Random	Slow > Fast	0 (0%)	Fade
		245	255	96,1%	100.0%	Open		0 (0%)	Fade
2	Intensity	0	255	0,0%	100,0%	No light > Maximum light		0 (0%)	Fade
3	Panel 1	0	255	0,0%	100,0%	No light > Maximum light	Panel 1		

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
4	Panel 2	0 255	0,0% 100,0%	No light > Maximum light	Panel 2	0 (0%)	Fade
5	Panel 3	0 255	0,0% 100,0%	No light > Maximum light	Panel 3	0 (0%)	Fade
6	Panel 4	0 255	0,0% 100,0%	No light > Maximum light	Panel 4	0 (0%)	Fade
7	Panel 5	0 255	0,0% 100,0%	No light > Maximum light	Panel 5	0 (0%)	Fade
8	Panel 6	0 255	0,0% 100,0%	No light > Maximum light	Panel 6	0 (0%)	Fade
9	Panel 7	0 255	0,0% 100,0%	No light > Maximum light	Panel 7	0 (0%)	Fade
10	Panel 8	0 255	0,0% 100,0%	No light > Maximum light	Panel 8	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
11	Panel 9	0 255	0,0% 100,0%	No light > Maximum light	Panel 9	0 (0%)	Fade
12	Panel 10	0 255	0,0% 100,0%	No light > Maximum light	Panel 10	0 (0%)	Fade
13	Panel 11	0 255	0,0% 100,0%	No light > Maximum light	Panel 11	0 (0%)	Fade
14	Panel 12	0 255	0,0% 100,0%	No light > Maximum light	Panel 12	0 (0%)	Fade

12 Channel Mode - 8 bit (12 segments)

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
1	Panel 1	0 255	0,0% 100,0%	No light > Maximum light	Panel 1		
2	Panel 2	0 255	0,0% 100,0%	No light > Maximum light	Panel 2	0 (0%)	Fade
3	Panel 3	0 255	0,0% 100,0%	No light > Maximum light	Panel 3	0 (0%)	Fade
4	Panel 4	0 255	0,0% 100,0%	No light > Maximum light	Panel 4	0 (0%)	Fade
5	Panel 5	0 255	0,0% 100,0%	No light > Maximum light	Panel 5	0 (0%)	Fade
6	Panel 6	0 255	0,0% 100,0%	No light > Maximum light	Panel 6	0 (0%)	Fade
7	Panel 7	0 255	0,0% 100,0%	No light > Maximum light	Panel 7	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
8	Panel 8	0 255	0,0% 100,0%	No light > Maximum light	Panel 8	0 (0%)	Fade
9	Panel 9	0 255	0,0% 100,0%	No light > Maximum light	Panel 9	0 (0%)	Fade
10	Panel 10	0 255	0,0% 100,0%	No light > Maximum light	Panel 10	0 (0%)	Fade
11	Panel 11	0 255	0,0% 100,0%	No light > Maximum light	Panel 11	0 (0%)	Fade
12	Panel 12	0 255	0,0% 100,0%	No light > Maximum light	Panel 12	0 (0%)	Fade

24 Channel Mode - 16 bit (12 segments)

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
1 2	Panel 1	0 65535	0,0% 100,0%	No light > Maximum light	Panel 1	0 (0%)	Fade
3 4	Panel 2	0 65535	0,0% 100,0%	No light > Maximum light	Panel 2	0 (0%)	Fade
5 6	Panel 3	0 65535	0,0% 100,0%	No light > Maximum light	Panel 3	0 (0%)	Fade
7 8	Panel 4	0 65535	0,0% 100,0%	No light > Maximum light	Panel 4	0 (0%)	Fade
9 10	Panel 5	0 65535	0,0% 100,0%	No light > Maximum light	Panel 5	0 (0%)	Fade
11 12	Panel 6	0 65535	0,0% 100,0%	No light > Maximum light	Panel 6	0 (0%)	Fade
13 14	Panel 7	0 65535	0,0% 100,0%	No light > Maximum light	Panel 7	0 (0%)	Fade

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
15 16	Panel 8	0 65535	0,0% 100,0%	No light > Maximum light	Panel 8	0 (0%)	Fade
17 18	Panel 9	0 65535	0,0% 100,0%	No light > Maximum light	Panel 9	0 (0%)	Fade
19 20	Panel 10	0 65535	0,0% 100,0%	No light > Maximum light	Panel 10	0 (0%)	Fade
21 22	Panel 11	0 65535	0,0% 100,0%	No light > Maximum light	Panel 11	0 (0%)	Fade
23 24	Panel 12	0 65535	0,0% 100,0%	No light > Maximum light	Panel 12	0 (0%)	Fade

1 Channel Mode - 8 bit (1 segment)

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
1	Intensity	0 255	0,0% 100,0%	No light > Maximum light	All Panels	0 (0%)	Fade

3 Channel Mode - 8 bit (3 segments)

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
1	Intensity	0 255	0,0% 100,0%	No light > Maximum light	Left 4 Panels	0 (0%)	Fade
2	Intensity	0 255	0,0% 100,0%	No light > Maximum light	Center 4 Panels	0 (0%)	Fade
3	Intensity	0 255	0,0% 100,0%	No light > Maximum light	Right 4 Panels	0 (0%)	Fade

6 Channel Mode - 16 bit (3 segments)

Channel	Name	DMX value	DMX percentage	Description	Info	Default DMX value	Fader type
1 2	Intensity	0 65535	0,0% 100,0%	No light > Maximum light	Left 4 Panels	0 (0%)	Fade
3 4	Intensity	0 65535	0,0% 100,0%	No light > Maximum light	Center 4 Panels	0 (0%)	Fade
5 6	Intensity	0 65535	0,0% 100,0%	No light > Maximum light	Right 4 Panels	0 (0%)	Fade

Control menu

Level 1	Level 2	Level 3	Function
INFO	PRODUCT TYPE	-	Displays the device product type.
	FIRMWARE VERSION	-	Displays installed software version number.
	SERIAL NUMBER	-	Displays the device serial number.
	RDM ID	-	Displays the device RDM ID (for use with the SGM Tool app).
	DMX VIEW	-	Displays received DMX levels.
	TEMPERATURES	-	Displays device temperatures.
	POWER ON TIME	-	Displays device power on time.
	LOG	-	Displays recorded operating data and error codes.
SETTINGS	FLIP DISPLAY	ENABLE	Selects normal control panel display.
		DISABLE	Flips control panel display.

Level 1	Level 2	Level 3	Function
SETTINGS (continued)	DISPLAY SAVER	DISPLAY DIM	Dims the OLED display, when the control panel is not in use.
		DISPLAY OFF	Turns off OLED display, when the control panel is not in use.
	FAN MODE	STANDARD	Adjust fan speed relative to device internal temperature.
		SILENT	Low fan speed for quiet operation.
		MAX POWER	High fan speed for maximum cooling effect.
	FACTORY DEFAULT	-	Reset the device to factory default.
	SERVICE PIN	-	
	SERVICE MENU	PRODUCT TYPE	
		CALIBRATION INFO	
		PSU VOLTAGE	
		PWN OUT	

Level 1	Level 2	Level 3	Function
TEST	SELFTEST	-	Initiates self-test sequence.
	DISPLAY TEST	-	Service use only.
	COLOR TEST	-	

Devices and accessories

Included items

Floor stand (including screws)
Omega bracket
User manual
Neoprene pouch

Ordering information

Q-2 Color Flood Light ..... Order no: 80030535
Q-2 White ..... Order no: 80030536
SGM USB uploader cable ..... Order no: 83062011

APPROVALS AND CERTIFICATIONS

Conforms to.....2004/108/EC: EMC Directive
Conforms to.....2006/95/EC: Low Voltage Directive
Conforms to.....2011/65/EU: RoHS2 Directive

The information in this document is subject to change without notice

User’s notes

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